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BOROUGH OF



GRAVESEND

ANNUAL REPORT

OF THE

Medical Officer of Health

FOR THE YEAR 1954

H. S. DAVIES,

M.D., B.S.(LOND.), M.R.C.S., L.R.C.P., D.P.H.

HEALTH COMMITTEE, 1954.

THE MAYOR (Councillor J. H. TAYLOR, J.P.)

Councillor C. A. WHITE (Chairman)

Councillor H. F. MARGRETT (Vice-Chairman)

Alderman A. G. RAMSAY

Alderman H. DAVIDSON

Councillor Miss A. E. H. JOHNSON, B.E.M.

Councillor L. P. SMITH

Councillor L. W. KEMPSTER

Councillor D. M. GILBEY

Councillor Mrs. M. O. CREESE, M.B.E.

Councillor H. D. W. WILLIS

Councillor T. A. ROBINSON

Councillor R. GURR

Councillor Mrs. N. Q. MILTON

HEALTH DEPARTMENT STAFF.

Medical Officer of Health :

HERBERT S. DAVIES, M.D., B.S., (Lond.), M.R.C.S., L.R.C.P., D.P.H.

Deputy Medical Officer of Health :

DANIEL DESMOND, M.B., B.Ch., D.P.H. (Cork).

Chief Sanitary Inspector :

*J. E. BAKER, M.S.I.A., C.R.S.I.

Deputy Chief Sanitary Inspector :

*K. McINTYRE, M.S.I.A., Cert.S.I.B.

District Sanitary Inspectors :

*J. H. LOTT, M.S.I.A., C.R.S.I. (resigned May, 1954).

*D. G. BANKS, M.S.I.A., Cert. S.I.B. (resigned August, 1954).

*J. WILCOCK, M.S.I.A., Cert.S.I.B.

*D. G. BUSH, M.S.I.A., Cert.S.I.B. (appointed August, 1954)

Clerical Staff :

Mrs. E. MARTIN, Secretary to Medical Officer (resigned September, 1954).

A. H. BAKER, Chief Clerk to Sanitary Inspector.

Miss G. PUTTIFER.

Miss V. NEAVES, Clerk to Medical Officer.

Miss P. SPENCER (resigned August, 1954).

Miss P. BENNETT (appointed August, 1954).

Mrs. J. ALEXANDER (appointed November, 1954).

NOTE: —*Hold Meat and Food Inspection Certificate.

HEALTH DEPARTMENT,
WOODVILLE TERRACE,
GRAVESEND.

November, 1955.

HER WORSHIP THE MAYOR, MR. CHAIRMAN, LADIES AND GENTLEMEN,

I have much pleasure in presenting my Annual Report on the public health in Gravesend for the year ended 31st December, 1954.

The Registrar General's estimate of the population has now reached 45,960, that is 430 more than the previous year. The relatively high birth rate mentioned in my last report has been maintained, there being 768 live births registered during the year. The crude birth rate for 1954 is 16.71 per 1,000 population. The corrected birth rate becomes 16.21 which compares with 15.4 for the "Smaller Towns" and 15.2 for England and Wales generally. The crude death rate per 1,000 population was 9.05 and the corrected death rate 9.5 which compares with 11.3 for England and Wales. The infant mortality rate was 29.95.

Speaking generally, the health of the town has been good and apart from whooping cough, there has been no serious outbreak of infectious disease.

The important question of atmospheric pollution has been given careful consideration and the monthly records from the Council's collecting stations are summarised on page 10.

We were fortunate in having a second visit from the Mass Radiography Unit. The campaign was opened by His Worship the Mayor, Councillor J. H. Taylor, J.P., on 4th October, 1954, and the unit continued to function until 8th November, 1954. A brief statistical summary of this valuable work will be found later on in this report.

The Council has continued to give priority to the question of housing, and during 1954 the Corporation completed 197 houses and 12 flats.

In conclusion, may I express to the Chairman and members of the Health Committee my appreciation for their continued interest and support throughout the year. I wish also to thank my staff for their loyal co-operation.

I am, Madam Mayor, Mr. Chairman, Ladies and Gentlemen,

Your obedient Servant,
H. S. DAVIES,
Medical Officer of Health.

STATISTICS AND SOCIAL CONDITIONS OF THE BOROUGH.

SECTION "A".

Area of Borough (acres)	...	...	...	...	...	...	4,619
Registrar-General's estimate of the Population	...	...	...	...	...	...	45,960
Number of separate inhabited houses estimated (at 31.3.54)	...	...	...	...	...	...	12,804
Rateable Value (at 31.3.54)	...	...	...	...	...	...	£379,656
Sum represented by a Penny Rate (actual 31.3.54)	...	...	...	...	...	...	£1,513
Rates (to 31st March, 1954)—24/4d. in the £.							

Number of Dwelling Houses built during 1954—

Corporation	...	...	Houses	197
			Flats	12
Private Enterprise	...	...	Houses	57
			Bungalows	23
Total				289

INDUSTRIES AND EMPLOYMENT.

The chief industries in the locality are—Paper making, cement, light and marine engineering, cable and telegraph works, printing. A number of men are employed in the Merchant Navy, on river craft, and in dock work.

Unemployment has remained at a low level approximately 1 per cent of the insured population, but statistics which apply only to the Borough are not available.

REGISTERED LIVE BIRTHS.

				<i>Males</i>	<i>Females</i>	<i>Total</i>
Legitimate	...	...	...	399	341	740
Illegitimate	...	...	...	11	17	28
Total live births	...	...	...	410	358	768

Crude Birth Rate per 1,000 population—16.71

STILL BIRTHS.

				<i>Males</i>	<i>Females</i>	<i>Total</i>
Legitimate	...	...	...	5	8	13
Illegitimate	...	...	...	—	1	1
Total still births				5	9	14

Still Birth Rate—i.e., Rate per 1,000 total (live and still) births—17.90
Still Birth Rate per 1,000 population—0.30

REGISTERED DEATHS. All causes at all ages—416.

<i>Males</i>	<i>Females</i>	<i>Total</i>
248	168	416

Crude Death Rate per 1,000 population—9.05

(The previous year it was 10.56)

DEATHS FROM PUERPERAL CAUSES—Nil.

NATURAL INCREASE IN POPULATION (Excess of Births over Deaths)—352.

INFANT DEATHS—under 1 year of age.

				<i>Males</i>	<i>Females</i>	<i>Total</i>
Legitimate infants	...	...	...	15	6	21
Illegitimate infants	...	...	...	1	1	2
Total				16	7	23

DEATH RATE OF INFANTS UNDER 1 YEAR OF AGE: -

Infant Mortality Rate, i.e., All infants per 1,000 live births	...	...	29.95
Legitimate infants per 1,000 legitimate live births	...	...	28.38
Illegitimate infants per 1,000 illegitimate live births	...	...	71.79

COMPARATIVE BIRTH AND DEATH RATES.

<i>Rates</i>	<i>Gravesend</i>	<i>England and Wales</i>	160 'Smaller Towns', <i>Population of 25,000 to 50,000</i>
Birth Rate	16.21	15.2	15.4
Death Rate	9.5	11.3	11.3
Infant Mortality Rate	29.95	25.5	23.8
Still Birth Rate	0.30	0.36	0.35

BOROUGH OF GRAVESEND
BIRTHS AND DEATHS.
BIRTH AND DEATH RATES FOR LAST TEN YEARS.

	YEAR	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954
Number of births	761	1025	1029	830	751	760	702	767	767	768
Crude Birth rate (per 1,000 population)		21.0	25.4	24.7	19.35	17.36	17.16	15.85	16.95	16.85	16.71
Number of deaths	430	437	438	461	456	483	488	469	481	416
Crude Death rate (per 1,000 population)		11.9	10.83	10.52	10.75	10.54	10.91	11.02	10.36	10.56	9.05

CAUSES OF DEATH IN GRAVESEND FOR 1954

AS PROVIDED BY THE REGISTRAR GENERAL.

					<i>Male</i>	<i>Female</i>	<i>Total</i>
1.	Tuberculosis, Respiratory	...	...	...	5	4	9
2.	Tuberculosis, Other forms	...	...	...	1	1	2
3.	Syphilitic disease	...	...	...	—	—	—
4.	Diphtheria	...	...	...	—	—	—
5.	Whooping Cough	...	...	...	1	—	1
6.	Meningococcal infections	...	...	...	—	—	—
7.	Acute poliomyelitis	...	...	...	—	—	—
8.	Measles	...	...	...	—	—	—
9.	Other infective and parasitic diseases	...	...	...	—	2	2
10.	Malignant neoplasm, stomach	...	...	...	6	2	8
11.	Malignant neoplasm, lung, bronchus	...	...	...	10	—	10
12.	Malignant neoplasm, breast	...	...	...	—	10	10
13.	Malignant neoplasm, uterus	...	...	...	—	1	1
14.	Other malignant and lymphatic neoplasms	...	...	...	24	14	38
15.	Leukaemia, aleukaemia	...	...	...	—	—	—
16.	Diabetes	...	...	...	—	—	—
17.	Vascular lesions of nervous system	...	...	...	31	39	70
18.	Coronary disease, angina	...	...	...	47	15	62
19.	Hypertension with heart disease	...	...	...	9	3	12
20.	Other heart disease	...	...	...	39	33	72
21.	Other circulatory disease	...	...	...	5	3	8
22.	Influenza	...	...	...	—	1	1
23.	Pneumonia	...	...	...	6	4	10
24.	Bronchitis	...	...	...	19	3	22
25.	Other diseases of respiratory system	...	...	...	2	1	3
26.	Ulcer of stomach and duodenum	...	...	...	5	5	10
27.	Gastritis, enteritis and diarrhoea	...	...	...	1	2	3
28.	Nephritis and nephrosis	...	...	...	1	1	2
29.	Hyperplasia of prostate	...	...	...	3	—	3
30.	Pregnancy, childbirth, abortion	...	...	...	—	—	—
31.	Congenital malformations	...	...	...	3	2	5
32.	Other defined and ill-defined diseases	...	...	...	22	18	40
33.	Motor vehicle accidents	...	...	...	—	—	—
34.	All other accidents	...	...	...	3	3	6
35.	Suicide	...	...	...	5	1	6
36.	Homicide and operations of war	...	...	...	—	—	—
Total—All causes					248	168	416

BOROUGH OF GRAVESEND

CAUSES OF DEATH OF INFANTS UNDER ONE YEAR OF AGE.

	Total		Under 1 week		Under 1 month		1 and under 3 months		3 and under 6 months		6 and under 9 months		9 and under 12 months	
	M. F.		M. F.		M. F.		M. F.		M. F.		M. F.		M. F.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
∞														
Prematurity	4	1	4	1	—	—	—	—	—	—	—	—	—	—
Broncho-Pneumonia	4	1	1	—	1	—	1	—	1	1	—	—	—	—
Congenital Malformations	4	2	1	1	2	—	1	—	—	1	—	—	—	—
Other causes	4	3	—	3	1	—	1	—	2	—	—	—	—	—
Totals	16	7	6	5	4	—	3	—	3	2	—	—	—	—
	23		11		4		3		5		—			

INFECTIOUS DISEASES NOTIFIED DURING 1954.

DISEASE	Under one year										Total	Number removed to Hospital
	3 yrs.	5 yrs.	10 yrs.	15 yrs.	25 yrs.	45 yrs.	65 yrs.	and under	and under	and over		
Measles	2	4	3	2	—	—	—	—	—	—	11	1
Whooping Cough	21	40	44	75	—	—	—	—	—	—	184	10
Pneumonia	—	—	—	2	3	6	1	—	—	—	14	3
Scarlet Fever	—	1	8	26	1	—	—	—	—	—	38	—
Erysipelas	—	—	—	—	3	6	—	—	—	—	12	2
Puerperal Pyrexia	—	—	—	—	—	—	—	—	—	—	1	—
Acute Poliomyelitis—Paralytic	—	1	—	—	—	—	—	—	—	—	1	—
Non-paralytic	—	—	—	1	—	—	—	—	—	—	2	3
Meningococcal Infection	—	1	1	2	—	—	—	—	—	—	2	—
Acute Encephalitis	—	—	—	—	—	—	—	—	—	—	1	1
Dysentery	—	—	—	—	—	—	—	—	—	—	1	1
Food Poisoning	—	—	—	—	—	—	—	—	—	—	1	1
Typhoid	—	—	—	—	—	—	—	—	—	—	1	1
Respiratory Tuberculosis	1	—	—	1	21	12	1	—	—	—	57	34
Non-Respiratory Tuberculosis	—	—	2	—	1	1	—	—	—	—	6	3
Total	24	47	58	110	6	23	32	29	5	334	62	

ATMOSPHERIC POLLUTION.

Site	Rainfall Inches	Measurement of Deposited Matter by Deposit Gauges.			Estimation of Sulphur by Lead Peroxide Instruments S.O.3 (sulphur trioxide) collected per day (Milligrammes)
		Insoluble Deposit (Tons per square mile)	Soluble Deposit	Total Solids	
SWIMMING POOL					
January	1.14	10.00	11.67	21.67	2.89
February	1.65	10.30	9.09	19.40	1.70
March	1.38	9.46	7.58	17.05	1.88
April	0.20	3.93	4.87	8.79	1.68
May	1.30	11.48	10.24	21.71	1.27
June	2.91	6.75	8.79	15.54	0.70
July	2.49	8.73	8.49	17.22	0.79
August	2.60	9.20	11.07	20.27	0.87
September	1.14	6.81	6.11	12.92	0.70
October	1.07	5.54	6.28	11.81	1.00
November	3.47	9.19	14.90	24.10	1.86
December	1.38	7.55	10.60	18.16	2.43
Mean	1.73	8.25	9.14	17.39	1.48
DASHWOOD NURSERIES					
January	1.06	7.94	9.24	17.17	2.31
February	1.55	11.21	9.50	20.71	1.59
March	1.38	6.47	7.50	13.97	1.40
April	0.20	4.07	5.07	9.13	1.48
May	1.54	12.61	11.74	24.35	1.25
June	2.99	7.90	9.67	17.57	0.69
July	2.40	9.37	8.44	17.81	0.75
August	2.48	8.14	9.74	17.88	0.78
September	0.95	5.17	5.07	10.24	0.51
October	1.10	4.00	5.43	9.44	0.65
November	3.35	7.44	12.04	19.48	1.21
December	1.30	5.84	7.74	13.57	1.64
Mean	1.69	7.51	8.43	15.94	1.19

Further details will be found on pages 49, 50 and 51.

SECTION "B".

GENERAL PROVISION OF HEALTH SERVICES IN THE AREA.

1. MEDICAL PRACTITIONERS.

There are 17 doctors residing in the area who are engaged in general practice.

2. LABORATORY FACILITIES.

The following specimens were submitted to the Kent County Laboratory, Maidstone, for examination: -

A.

(1) Faeces—Examination for Pathogenic Organisms	...	4
Total	...	4

B.

(1)	Milk—Bacteriological Examination	...	...	17
(2)	Water—Public supplies—Bact. Examinations		...	50
	Swimming Pool—Bact. Examinations		...	18
(3)	Ice Cream—Bacteriological Examination	...	...	54
				<hr/>
		Total	...	139

3. COUNTY AMBULANCE SERVICE.

Eight ambulances (5 stretcher and 3 sitting cases) are stationed at the Harden V.C. Memorial Hall, Hall Road, Northfleet. Telephone—Gravesend 5257/8.

4. NURSING IN THE HOME.

This service is to provide nurses, free of charge, for persons who require nursing in their own homes. Apart from cases of emergency and accidents, patients can only be attended by a nurse on the production of a certificate from their private medical practitioner. At present it is not possible to provide a night service. Application is made to the District Officer, District Office, Arthur Street, or to the Nurses direct. The District Officer's telephone number is Gravesend 166.

There are four female nurses and one male nurse employed in this area and their names and addresses together with telephone numbers are given below: -

	<i>Telephone No.</i>
Sister Jones, 8 York Road, Gravesend.	Gravesend 4700
Nurse Rampling, Church Cottage, London Road, Greenhithe.	Greenhithe 2197
Nurse Cake, 7 St. Hilda's Way, Gravesend	Gravesend 4463
Nurse Morris, 9 Whitehill Road, Gravesend.	Gravesend 5980
Mr. J. F. Towell, "Acacia", Gorseway, Hartley.	Longfield 3313

The following services are provided by the County Council: -

5. MATERNITY AND CHILD WELFARE CLINICS.

- (1) Ante-Natal Clinics.
- (2) Infant Welfare Clinics.
- (3) Diphtheria Immunisation Clinics.
- (4) Dental Clinics.
- (5) Speech Therapy Clinics.

6. MIDWIFERY SERVICE.

There are six County Midwives serving the Gravesend area.

<i>Name and Address</i>	<i>Telephone No.</i>
Miss L. M. Larner, 31 York Road, Gravesend.	Gravesend 4111
Miss M. Nash, 77 Dickens Road, Gravesend.	Gravesend 4166
Mrs. R. Peacock, 13 Joy Road, Gravesend.	Gravesend 4084
Mrs. K. M. Polson, 15 Taunton Vale, Gravesend.	Gravesend 4707
Miss L. M. Mills, 85 Whitehill Road, Gravesend.	Gravesend 2980
Mrs. F. E. Dudley, 25 Arnold Road, Gravesend.	Gravesend 5976

7. DOMESTIC HELP SERVICE.

This is a County Service giving domestic help to old people, maternity patients and persons suffering from illness, and other cases of emergency. Application is made to the District Office, Arthur Street, Telephone No. Gravesend 166.

CHEST CLINIC.

The Chest Clinic is held at the Gravesend and North Kent Hospital every Wednesday at 9 a.m.

VENEREAL DISEASE CLINIC.

Dr. C. D. Routh is in attendance at the Gravesend Clinic, 22 Cobham Street, at the following times: -

<i>Tuesday</i>		
Male	—	11-0 a.m. to 1-0 p.m.
Female	—	1-0 p.m. to 2-0 p.m.
<i>Saturday</i>		
Male & Female		9 a.m. to 10-0 a.m.

GRAVESEND AND NORTH KENT HOSPITAL.

The Out-patient Clinics at the Hospital are as follows: -

MONDAY

9-15 a.m.	Ear, Nose & Throat Clinic	Mr. Golding-Wood
9-30 a.m.	Physiotherapy	Dr. Sowden
9-30 a.m.	Medical	Dr. J. Craig
1-30 p.m.	Ophthalmic Clinic (K.E.C.)	Dr. M. F. McDonnell
2-0 p.m.	Fracture Clinic	Mr. R. H. V. Hafner
2-0 p.m.	Medical	Dr. Moir

TUESDAY

9-0 a.m.	Dental Clinic	Mr. F. T. Wilkinson
9-30 a.m.	Skin Clinic	Dr. Cairns
9-30 a.m.	Ophthalmic Clinic (K.C.C.)	Mr. G. L. Simmons
11-30 a.m.	Surgical Clinic	Mr. M. Landau
3-0 p.m.	Ante-Natal Clinic	Mr. F. S. Horrocks
3-0 p.m.	Gynaecological Clinic	Mr. A. M. Hunter

WEDNESDAY

9-0 a.m.	Chest Clinic	Dr. H. J. Robinson
9-30 a.m.	Surgical Clinic	Mr. B. E. C. Stanley
2-30 p.m.	Psychiatric Clinic (Old Cases)	Dr. J. J. Pearse
6-0 p.m.	Refill Clinic	Dr. H. J. Robinson

THURSDAY

9-30 a.m.	Orthopaedic Clinic	Mr. R. H. V. Hafner
9-30 a.m.	Chest (Refills)	Dr. H. J. Robinson
9-30 a.m.	Ophthalmic Clinic	Mr. W. E. Heath
1-30 p.m.	Ophthalmic Clinic (K.E.C.)	Mr. G. L. Simmons

FRIDAY

9-0 a.m.	Dental Clinic	Mr. F. T. Wilkinson
9-30 a.m.	Medical	Dr. J. Craig
10-15 a.m.	Fracture Clinic	Mr. R. H. V. Hafner
2-0 p.m.	Surgical Clinic	Mr. Sol. M. Cohen
2-30 p.m.	Psychiatric Clinic	Dr. J. J. Pearse (By appointment with Almoner)
3-0 p.m.	Psychiatric Clinic	Dr. S. W. Hardwick (By appointment with Almoner)

SATURDAY

9-30 a.m.	Chest Clinic (Children)	Dr. H. J. Robinson
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MATERNITY AND CHILD WELFARE.

Under the National Health Service Act, 1946, the administrative arrangements for the Maternity and Child Welfare Services passed from the Borough Council to the Kent County Council.

NOTIFICATION OF BIRTHS.

Notifications of births are sent direct to the County Medical Officer at Maidstone.

The number of live and still births occurring in Gravesend during the year was 751. After correction for those whose usual residence is elsewhere (i.e., 129 transferred "out" and 160 transferred "in") the number properly belonging to the Borough was 782 (775 live births and 7 still births) compared with 776 in the previous year.

PARTICULARS OF BIRTHS OCCURRING IN GRAVESEND.

Total No. of live and still births occurring in Gravesend	...	751
No. of live births actually belonging to Gravesend	...	617
No. of still births actually belonging to Gravesend	...	5
No. of live births (non-residents)	... ..	127
No. of still births (non-residents)	... ..	2
	—	751

NO. OF BIRTHS OCCURRING IN INSTITUTIONS IN GRAVESEND.

	<i>Live Births</i>	<i>Still Births</i>
No of infants born in Hospital—(residents)	289	4
No. of infants born in Hospital—(non-residents)	108	2
No. of infants born in Nursing Home—(residents)	55	—
No. of infants born in Nursing Home—(non-residents)	19	—

HEALTH VISITORS.

Nurses with special qualifications are appointed for the purpose of giving advice as to the care of young children, persons suffering from illness and expectant and nursing mothers and as to the measures necessary to prevent the spread of infection.

The following Health Visitors are employed in the Gravesend area and can be contacted at their respective welfare centres: -

Miss M. Carter, S.R.N., S.C.M., Windmill Street Welfare Centre.
Miss M. White, S.R.N., S.C.M., Whitehill Welfare Centre.
Miss E. M. Kenworthy, S.R.N., S.C.M., "The Nest" Welfare Centre.
Miss K. Lewis, S.R.N., S.C.M., "The Nest", Welfare Centre.

PREMATURE INFANTS.

Premature infants nursed at home are visited regularly by the Midwives and Health Visitors.

The following special equipment is available for loan at the Welfare centres: -

Draught-proof cot with detachable lining, suitable warm clothing, hot water bottles, special feeding bottles, thermometer, mucus catheter, baby scales, etc.

MATERNITY AND CHILD WELFARE CENTRES.

The three Welfare Centres in the Borough are Windmill Street (Central), Whitehill (King's Farm Estate), and "The Nest" (Denton and Chalk district).

The sessions are as follows: -

	<i>Windmill Street.</i>	<i>Whitehill.</i>	<i>"The Nest".</i>
MONDAY	<i>Afternoon</i> Child Welfare Clinic— Health Visitors con- sultations; B a b y weighing; Sale of Foods, etc.	<i>Afternoon</i> Child Welfare Clinic— Medical Officer in at- tendance; H e a l t h Visitors Consultations; Baby weighing; Sale of Foods, etc.	<i>Afternoon</i> †Ante Natal Clinic.
TUESDAY	<i>Afternoon</i> Child Welfare Clinic— Diphtheria Immunis- ation and Vaccinations	<i>Afternoon</i> Ante-Natal Clinic and M i d w i v e s' Clinic combined.	<i>Morning & Afternoon</i> Speech Therapy Clinic
WEDNESDAY	<i>Afternoon</i> Midwives' Clinic.	—	<i>Afternoon</i> Child Welfare Clinic— Medical Officer in at- tendance; H e a l t h Visitors Consultations; Baby weighing; Sale of Foods, etc.
THURSDAY	<i>Afternoon</i> Ante-Natal Clinic.	<i>Afternoon</i> Child Welfare Clinic— Medical Officer in at- tendance; H e a l t h Visitors Consultations; Baby weighing; Sale of Foods, etc.	—
FRIDAY	<i>Afternoon</i> Child Welfare Clinic— Medical Officer in at- tendance; H e a l t h Visitors Consultations; Baby weighing; Sale of Foods, etc.	—	<i>Afternoon</i> Midwives' Clinic.

†First and third Mondays in each month.

ATTENDANCES AT CHILD WELFARE CENTRES.

The attendances at the three Welfare Centres during the year were: -

(a)	Individual children under 1 year of age	...	...	...	579
(b)	Individual children between 1 and 5 years	...	...	...	1,064
(c)	Total number of attendances of all children under 5 years				11,854

For the year 1953 the figures were: -

(a)	537.	(b)	1,259.	(c)	12,124.
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LADIES VOLUNTARY COMMITTEE.

The Ladies' Voluntary Committee continue to serve at the three Welfare Centres in the town and their work is greatly appreciated.

ANTE-NATAL CLINICS.

Ante-Natal clinics are held once a week at Windmill Street and Whitehill Welfare Centres and once a fortnight at "The Nest" Welfare Centre. A lady doctor is in attendance at each session.

In all, 269 expectant mothers attended the clinics. The total attendances were 855 as against 1,153 in the previous year.

WOMEN'S WELFARE CLINIC.

Married women requiring advice are referred to the Gynaecological Clinic at Gravesend and North Kent Hospital, by their private medical practitioners. This clinic is held on Tuesday afternoons, at 3 p.m.

DENTAL TREATMENT.

Dental treatment for expectant and nursing mothers, children under five years and school children is provided at the Dental Clinic, Manor Road.

The Clinic is open at the following times: -

Monday to Friday

A.M. 9-0 to 12 noon.

P.M. 1-30 to 4-0.

Saturday

A.M. 9-0 to 12 noon.

(appointments arranged)

OPHTHALMIC TREATMENT.

The County Ophthalmic Clinic is held at the Gravesend & North Kent Hospital.

MINOR AILMENT CLINICS—SCHOOL CHILDREN.

These clinics are held at the following times: -

Windmill Street	Monday, Wednesday, Thursday and Friday	9 a.m. to 10 a.m.
“The Nest”, Denton	Tuesday and Friday	9 a.m. to 10 a.m.
Whitehill, King’s Farm	Tuesday	9 a.m. to 10 a.m.

REGISTRATION AND SUPERVISION OF NURSING HOMES.

There are two nursing homes in the Borough.

1. A Nursing Home of fourteen beds—maternity and medical cases. This is governed by Sections 187-195 of the Public Health Act, 1936.
2. Home for Medical Cases, chiefly old people—ten beds. This home which had previously been registered under the above Act is now supervised by the Kent County Council under Section 37 of the National Assistance Act, 1948.

ARRANGEMENTS MADE FOR THE DISCOVERY OF UNREGISTERED HOMES.

1. The Returns from the local Registrar are examined to check the addresses at which births and deaths occur.
2. Health Visitors and the staff are asked to keep a look out for unregistered homes.

MORAL WELFARE—CARE OF THE UNMARRIED MOTHER AND HER CHILD.

This work is now a function of the Kent County Council. Kendall House, Pelham Road, Gravesend, opened in 1946 by the Rochester Diocesan Association for Moral Welfare, has an experienced Church Army Sister in charge. A representative of the Council serves on the Moral Welfare Committee and a grant was made to the Association from the funds available under the Sunday Entertainments Act, 1932.

WELFARE OF OLD PEOPLE.

The Gravesend voluntary Old People’s Welfare Committee which is affiliated to the Kent Council of Social Service, continues to do excellent work. The object of the Committee is to promote and assist the general good of all old people of the Borough.

The four Darby and Joan Clubs are proving very popular and membership is steadily increasing. A new "Forget-Me-Not" club for the over sixties has been formed and this is held at Trumans Hall, and the Veterans Club now has a new building in Clarence Place. The activities of the Committee include the following: - Home visiting, meals on wheels service, visits to hospitals, trolley shop, occupational therapy. A vehicle has been purchased and outings have been arranged for the elderly folk. Sixty outings were arranged during the year.

NATIONAL ASSISTANCE ACT, 1948, SECTION 47, AND
NATIONAL ASSISTANCE (AMENDMENT) ACT, 1951.

REMOVAL TO SUITABLE PREMISES OF PERSONS IN NEED OF CARE AND ATTENTION.

All cases were dealt with successfully by persuasion, and it was not necessary to make use of the above legislation.

Mr. J.E. Baker, Chief Sanitary Inspector, has supplied the statistics relating to the Sanitary Inspection, Housing and Food Inspection.

SECTION "C"

SANITARY CIRCUMSTANCES OF THE AREA.

WATER SUPPLY.

PUBLIC DRINKING SUPPLIES.

Two public water companies supply water to the Borough.

The water has been satisfactory—

(a) in quantity.

(b) in quality.

The water in both supplies is hard and there is no evidence of plumbo-solvent action.

Twelve dwelling houses are supplied from public mains by means of stand pipes. The remainder of the Borough is supplied direct to houses. The twelve houses in question are scheduled for demolition procedure when the housing situation permits.

BACTERIOLOGICAL EXAMINATION.

Fifty samples of water were taken for bacteriological examination as follows: -

Supplied by—

<i>Supplied by—</i>			<i>No. of</i>		
			<i>Samples</i>	<i>Satisfactory.</i>	<i>Unsatisfactory</i>
Gravesend & Milton Water Co.	...	...	38	37	1
Higham & Hundred of Hoo Co.	...	...	12	11	1
			<hr/>	<hr/>	<hr/>
			50	48	2
			<hr/>	<hr/>	<hr/>

Included in the foregoing are 12 samples of the Gravesend & Milton Water Company's supply from the Leith Park Road Pumping Station well (untreated) and 12 from the outgoing main (treated).

CHEMICAL ANALYSIS.

Samples taken for chemical analysis were as follows: -

				<i>No. of</i>		
				<i>Samples</i>	<i>Satisfactory.</i>	<i>Unsatisfactory</i>
<hr/>						
Gravesend & Milton Water Co.'s supply						
(3 treated and 1 untreated)				4	4	—

Note—Tabulated summaries of all water samples taken and results of examination are shown on pages 45—48

CORPORATION BATHING POOL.

The Open-air Bathing Pool opened in 1938, has accommodation for 800 bathers. The main pool is 150 feet long by 75 feet wide and has two shallow areas and a diving pit. The diving apparatus includes the following diving boards: - 1 metre fixed; 1 metre spring; 3 metre fixed; 3 metre spring; and a 5 metre fixed and a chute.

The 400,000 gallons of water in the pool are filtered, aerated, sterilised and heated.

Wide surrounds and large areas are provided for sun-bathing, whilst a spectator's terrace surrounds the site.

On the first floor of the building a Cafe and Spectators' Gallery is provided, affording a splendid view of the whole site.

There is also a Children's Paddling Pool, 50 feet by 50 feet, with its own surround, separated from the main pool by a terrace.

During the 1954 season the following persons used the Pools: -

Bathers and Spectators	...	...	...	...	53,523
Schools	...	...	...	...	20,406
Seasons Pass	...	...	...	...	6,240
Clubs	...	...	...	...	1,719
H.H. Forces	...	...	...	...	1,134
					<hr/> 83,022 <hr/>

HYGIENIC ARRANGEMENTS.

The Medical Officer of Health has continued to keep the hygienic arrangements at the Pool under supervision. "Breakpoint Chlorination", which was put into operation in 1948 appears to be working efficiently.

BACTERIOLOGICAL EXAMINATION OF WATER.

Eighteen examinations were made. See tabulated summary on page 48.

SLIPPER BATHS.

The Slipper Baths at the Corporation Bathing Pool were opened in January, 1949.

There are separate sections for males and females—7 baths being allocated to males and 3 to females.

This service is working very satisfactorily and is much appreciated by the residents of the town. The attendances for the year 1954 were as follows: -

Males	...	...	...	11,793
Females	...	...	...	2,954
				<hr/> 14,747 <hr/>

ADMINISTRATION OF FACTORIES ACT, 1937.

The Council has the duty to enforce certain provisions of Parts I, IV and VIII of the Factories Act, 1937.

Administrative arrangements include the following: -

Part I—Health (General Provisions).

- (1) Registration of all factories.
- (2) Inspection of sanitary conveniences in all factories.
- (3) Inspection with regard to cleanliness, overcrowding, temperature, ventilation and drainage of floors in all factories in which mechanical power is not used.

Part IV—Basement Bakehouses.

- (1) The quinquennial examination of basement bakehouses and the renewal or cancellation of Certificates of Suitability.

Part VIII—Home work.

- (1) Examination of lists, supplied to the Council by employers of outworkers in certain specified trades.
- (2) Notification of name and place of employment of any home worker employed outside the Borough to the Council in whose district his employment is situated.
- (3) Inspection of premises in which the outworker pursues his occupation.

The provisions of the Act, so far as they affect Local Authorities, have been enforced. The following table shows the work carried out: -

1. Inspections for the purpose of provisions as to health—

Premises	Number on Register	Number of			
		Inspections	Written Notices	Verbal Notices	Notices Complied with
(i) Factories in which Sections 1, 2, 3, 4 and 6 are to be enforced by Local Authorities	41	37	—	2	3
(ii) Factories not included in (i) in which Section 7 is enforced by Local Authority	111	91	1	4	12
(iii) Other premises in which Section 7 is enforced by the Local Authority (excluding out-workers premises)	1	—	—	—	—
	<u>153</u>	<u>128</u>	<u>1</u>	<u>6</u>	<u>15</u>

2. Cases in which defects were found—

Particulars	Number of cases in which defects were found				Number of cases in which prosecutions were instituted
	Found	Remedied	Referred to H.M. Inspector	by H.M. Inspector	
Want of cleanliness ...	3	3	—	—	—
Overcrowding ...	—	—	—	—	—
Unreasonable temperature	—	—	—	—	—
Inadequate ventilation	—	—	—	—	—
Ineffective drainage of floors	—	—	—	—	—
Sanitary Conveniences—					
(a) insufficient ...	1	1	—	—	—
(b) unsuitable or defective	2	2	—	2	—
(c) not separate for sexes	—	—	—	—	—
Other offences against the Act (not including offences relating to Outwork). ...	1	1	—	—	—
	7	7	—	2	—

1. Total number of outworkers notified to Gravesend Council 1953 (under 1 (c) of Sect. 110 Factories Act 1937)	5
2. Total number of outworkers notified by Gravesend Council to other Councils (under 2 of Sect. 110 Factories Act, 1937)	2
3. Total number of outworkers notified to Gravesend by other Councils	3
4. Total number of outworkers employed in Gravesend	6
5. Total number of inspections of work places (under 111 (I) Factories Act, 1937)	13
6. List of scheduled occupations followed by outworkers employed in premises in Gravesend: -	
Wearing apparel, making, etc.	6

BASEMENT BAKEHOUSES.

PART IV OF THE ACT.

Certificates of Suitability are in operation in respect of four basement bake-houses, one having closed during the year. Eight notices to remedy defects or for cleansing were complied with.

SUMMARY OF INSPECTIONS AND REVISITS.

Dwelling house inspections	...	...	...	...	...	...	...	1,578
Re-inspections	...	...	...	...	...	...	...	2,306
Visits to other premises: -								
Atmospheric Pollution Sites	...	...	...	...	...	...	...	26
Bakehouses	...	...	...	...	...	...	...	51
Butchers shops	...	...	...	...	...	...	...	451
Confectioners	...	...	...	...	...	...	...	53
Cooked meat shops	...	...	...	...	...	...	...	28
Dairies and milkshops	...	...	...	...	...	...	...	115
Dining rooms and cafes	...	...	...	...	...	...	...	159
Factories (with power)	...	...	...	...	...	...	...	91
Factories (without power)	...	...	...	...	...	...	...	37
Fishmongers	...	...	...	...	...	...	...	60
Fish frying	...	...	...	...	...	...	...	17
Greengrocers	...	...	...	...	...	...	...	261
Ice Cream premises	...	...	...	...	...	...	...	168
Infectious diseases	...	...	...	...	...	...	...	108
Markets	...	...	...	...	...	...	...	36
Meat depots	...	...	...	...	...	...	...	54
Offensive trades	...	...	...	...	...	...	...	4
Outworkers	...	...	...	...	...	...	...	13
Pet shops	...	...	...	...	...	...	...	25
Piggeries	...	...	...	...	...	...	...	6
Places of entertainment	...	...	...	...	...	...	...	5
Provision shops	...	...	...	...	...	...	...	429
Public convenience	...	...	...	...	...	...	...	30
Public house convenience	...	...	...	...	...	...	...	27
Rodent control	...	...	...	...	...	...	...	3,327
Schools	...	...	...	...	...	...	...	1
Shops (Shops Act provisions)	...	...	...	...	...	...	...	338
Slaughterhouses	...	...	...	...	...	...	...	230
Smoke observations	...	...	...	...	...	...	...	41
Stables	...	...	...	...	...	...	...	7
Tents, van, sheds	...	...	...	...	...	...	...	2
Miscellaneous	...	...	...	...	...	...	...	3,078
Total visits of all kinds	...	...	...	...	...	...	...	13,162

NOTICES SERVED AND COMPLIED WITH.

(1) In respect of dwelling houses—		<i>Informal</i>	<i>Statutory</i>
Number served	...	621	76
Complied with			
(a) By owners or occupiers	...	672	76
(b) By Local authority in default	...	—	7
(2) In respect of other premises—			
Number served	...	44	—
Complied with	...	69	—

Notices complied with include outstanding notices at end of 1953, complied with during 1954.

NUISANCES AND DEFECTS REMEDIED.

Animals in unfit state	...	...	...	...	...	...	...	...	1
Accumulations removed	...	...	...	...	...	...	...	...	19
Dustbins provided	...	...	...	...	...	...	...	...	449
Cesspools—repaired	...	...	...	...	...	...	...	...	2
enlarged	...	...	...	...	...	...	...	...	1
disused and filled in	...	...	...	...	...	...	...	...	3
covers provided	...	...	...	...	...	...	...	...	7
Chimney Stacks—repaired	...	...	...	...	...	...	...	...	8
new pots provided	...	...	...	...	...	...	...	...	2
Coppers—new provided	...	...	...	...	...	...	...	...	1
repaired	...	...	...	...	...	...	...	...	2
Dampness—damp wallplaster removed and reinstated	...	...	...	...	...	...	...	...	46
external walls repaired	...	...	...	...	...	...	...	...	20
external walls repointed	...	...	...	...	...	...	...	...	12
external walls rendered	...	...	...	...	...	...	...	...	14
guttering repaired or renewed	...	...	...	...	...	...	...	...	31
roofs repaired	...	...	...	...	...	...	...	...	60
rainwater pipes renewed or repaired	...	...	...	...	...	...	...	...	25
Doors and door sills repaired or renewed	...	...	...	...	...	...	...	...	11
Dirty houses cleansed by tenants	...	...	...	...	...	...	...	...	3
Disinfestation of premises—									
for vermin	...	...	...	...	...	...	...	...	16
Drainage—drains repaired	...	...	...	...	...	...	...	...	6
drains relaid	...	...	...	...	...	...	...	...	10
drains unstopped	...	...	...	...	...	...	...	...	41
inspection chambers provided or repaired	...	...	...	...	...	...	...	...	5
soil and ventilation pipes, new provided	...	...	...	...	...	...	...	...	1
soil and ventilation pipes repaired	...	...	...	...	...	...	...	...	1
gullies and/or grids provided	...	...	...	...	...	...	...	...	5
gully curbs or channels repaired or provided	...	...	...	...	...	...	...	...	13
Fireplaces renewed or repaired	...	...	...	...	...	...	...	...	15
Floors repaired or relaid	...	...	...	...	...	...	...	...	24
Hearths repaired	...	...	...	...	...	...	...	...	2
Lavatory basins repaired or renewed	...	...	...	...	...	...	...	...	1
Paving relaid or repaired	...	...	...	...	...	...	...	...	4
Rooms, passages and staircases—									
ceilings repaired	...	...	...	...	...	...	...	...	50
walls repaired	...	...	...	...	...	...	...	...	60
Sinks—new provided	...	...	...	...	...	...	...	...	7
Sink or bath waste pipes renewed or repaired	...	...	...	...	...	...	...	...	10
Stoves renewed or repaired	...	...	...	...	...	...	...	...	5
Smoke nuisances abated	...	...	...	...	...	...	...	...	7
Staircases—repaired	...	...	...	...	...	...	...	...	13
Steps and thresholds repaired/or renewed	...	...	...	...	...	...	...	...	3
Water supply—water pipes, etc. repaired	...	...	...	...	...	...	...	...	13
Water closets—new constructed	...	...	...	...	...	...	...	...	1
repaired and/or cleansed	...	...	...	...	...	...	...	...	33
new pans provided	...	...	...	...	...	...	...	...	18

	pans cleansed	...	...	...	...	...	...	7
	unstopped	...	...	...	...	...	...	8
	flushing cisterns provided	...	...	...	...	...	...	6
	flushing cisterns repaired	...	...	...	...	...	...	17
	seats renewed or repaired	...	...	...	...	...	...	16
Windows—	renewed or repaired	...	...	...	...	...	...	22
	sashcords provided	...	...	...	...	...	...	60
	sills renewed or repaired	...	...	...	...	...	...	7
	sash weights provided or adjusted	...	...	...	...	...	...	7
Other matters	...	...	...	...	...	...	...	39

ERADICATION OF VERMIN.

The work of disinfestation of Council houses is carried out by the Local Authority, infested rooms being sprayed with an insecticide.

Premises belonging to private owners are also disinfested on request and the cost of the work is charged to the persons concerned.

Particulars of action taken during 1954: -

			<i>Council houses.</i>	<i>Other houses.</i>	<i>Total</i>
Number of houses found to be infested	...	...	14	16	30
Number of houses disinfested	...	...	14	16	30

SHOPS ACT, 1950.

Shops have been kept under observation during the year, 338 inspections being made. 11 notices to remedy defects or faults were complied with, and it was found necessary to warn shopkeepers in certain cases for contravention against the provisions relating to Sunday trading.

THE RAG FLOCK AND OTHER FILLING MATERIALS ACT, 1951.

It is the duty of the Council to enforce the provisions of this Act.

These duties include the following: -

1. The inspection and registration of premises where filling materials are used in activities laid down in the Act.
2. The inspection and licensing of premises where rag flock is manufactured or stored.
3. The inspection of records to be kept under the Act.
4. Where considered necessary the taking and testing of samples of filling materials.

The Act is intended to provide a comprehensive measure for the adequate control of the manufacture and use of filling materials and to ensure that high standards of cleanliness are maintained.

Two premises have been registered within the district and these have been kept under supervision.

PET ANIMALS ACT, 1951.

It is the duty of the Council to enforce the provisions of this Act.

The Act provides for a system of licensing and inspection by local authorities of pet shops, the main purposes being the enforcement of the Protection of Animals Act in their application to the business of selling pets.

Seven premises are licensed within the district and these have been kept under supervision, 25 inspections being made.

DRAIN TESTING.

Drains at 5 premises were tested during the year with the following results: -

					<i>No. of tests made</i>	<i>Found to be sound</i>	<i>Found to be defective</i>
New drains	...	...	...	...	6	5	1
Old drains	...	...	...	...	—	—	—
					—	—	—
					6	5	1
					—	—	—

CESSPOOL AND PAIL SYSTEM.

There are still approximately 750 premises in the Eastern and Southern parts of the Borough where the drainage discharges into cesspools.

The Health Department is responsible for this work but the actual emptying of cesspools is carried out on behalf of the Department by the Borough Engineer's Department, a combined road gully and cesspool emptying machine being used for the purpose.

During the year 11,604 tons of sewage were removed, requiring 916 emptyings, compared with 9,330 tons requiring 789 emptyings the previous year.

Approximately 16 pails are in use in the Borough, of these 8 are emptied twice weekly by the Public Health Department and the remainder are dealt with by the owners or occupiers.

HOUSE AND TRADE REFUSE REMOVAL AND DISPOSAL.

(a) COLLECTION.

Ten Shelvoke and Drewry freighters, including one spare machine, are used for this Service.

One of these vehicles with driver and one loader is also employed on the collection of trade refuse from business establishments, collections being made more frequently than in the case of ordinary domestic refuse.

Refuse collected during the year amounted to 13,753 tons, compared with 12,941 tons the previous year, these amounts being ascertained by test weighing.

(b) DISPOSAL.

All refuse is disposed of by means of controlled tipping on land at Denton marshes, an area of approximately 44 acres in extent.

A muledozer tractor is used for levelling, covering and consolidating the refuse.

SALVAGE.

An Austin truck is used for the separate collection of waste paper, and four trailers are also used with refuse collection vehicles for the purpose.

The separate collection of food waste was discontinued at the end of March, 1954.

Salvaged materials collected and sold during the year were as follows: -

<i>Materials</i>	<i>Weight</i>			<i>Value</i>		
	Tons	Cwts	Qrs.	£	s.	d.
Waste paper	417	8	2	2,871	8	11
Food waste	103	16	0	411	19	9
Metals	2	3	1	26	2	1
Textiles and String	3	9	0	28	10	11
	526	16	3	£3,338	1	8

DISINFECTION OF PREMISES.

Disinfection of rooms and bedding where necessary for the prevention of infectious diseases was carried out at 64 premises.

PUBLIC CONVENIENCES.

The Health Department is responsible for the staffing and cleansing of public conveniences in the Borough and the collection of receipts therefrom.

One underground convenience, with male and female sections is situated in Parrock Street and includes washing facilities. Male and female attendants are employed at this convenience.

One convenience for females, provided with attendants and washing facilities is situated on the Gordon Promenade, but is only open during the summer months.

One convenience for females and one for males are situated in Fort Gardens. An attendant is employed at the females' convenience during entertainments in the summer.

Other small public conveniences, 8 for men, 3 for women and 2 for children, are situated in various parts of the Borough. These are without washing facilities or attendants.

Conveniences at a number of licensed premises are also cleansed by Health Department employees in consideration of the fact that they are available for the use of the general public at all times.

Conveniences attached to other licensed premises have also been kept under supervision.

During the year improvements were carried out at the Town Pier convenience. The defective stalls were removed and replaced with Terrazzo slabs.

The men's convenience in Gordon Recreation ground was demolished and the men's convenience on Windmill Hill was closed.

RODENT CONTROL.

Under the Prevention of Damage by Pests Act 1949 it is the duty of the Local Authority to take such steps as may be necessary to secure, as far as practicable, that their district is kept free from rats and mice, and in particular: -

- (a) from time to time to carry out such inspections as may be necessary for the purposes aforesaid,
- (b) to destroy rats and mice on land of which they are the occupier and otherwise to keep such land as far as practicable free from rats and mice,
- (c) to enforce the duties of owners and occupiers of land under the following provisions of this part of this Act, and to carry out such operations as are authorised by those provisions.

All infested premises notified to the Health Department or discovered during the course of inspection during the year were dealt with. The cost of disinfestation at business premises by the Council's Rodent Officer is charged to the occupiers, but the work at dwelling houses is carried out free.

The following report summarises the work carried out during the year 1954: -

Infested premises under treatment at the end of 1953	...	...	9
Premises found to be infested during 1954	...	...	289
Premises treated and cleared	...	...	283
Premises still under observation at the end of year	...	...	15
Total number of visits	...	...	3,327

In addition to the above, two maintenance treatments of the sewers for the destruction of rats were carried out, one during the period 10th May to 5th June and the other during the period 8th November to 1st December.

During the first treatment 796 manholes were treated and the results showed infestations in 57.

During the second treatment 764 manholes were treated and the results showed infestation in 57.

SECTION "D"

HOUSING.

Housing is still the great problem in health work. As in previous years the Council have pursued this matter with the utmost vigour. They have built the maximum number of houses allocated by the Ministry.

Each applicant for accommodation receives careful consideration and the Housing Selection Sub-Committee give priority in urgent cases. I am glad to express my gratitude for the way in which they have considered the families I have put before them, especially in regard to Tuberculosis and other illnesses.

The Borough Engineer has kindly supplied the following information: -

HOUSES COMPLETED DURING 1954

By Corporation	...	...	...	...	...	...	...	197
By Private Enterprise	...	...	...	...	...	...	...	57
								254

No. contemplated 1955—77

<i>No. of Flats completed during 1954</i>	12
---	-----	-----	-----	-----	----

No. contemplated 1955—49

Houses Built by Private Enterprise during 1954

Houses	...	...	...	...	...	...	...	57
Bungalows	...	...	...	...	...	...	...	23
								80

1. INSPECTION OF DWELLING HOUSES DURING THE YEAR : -

(1)	(a)	Total number of dwelling-houses inspected for housing defects (under Public Health or Housing Acts)	...	...	...	1578
	(b)	Number of inspections made for the purpose	...	...	...	3884
(2)	(a)	Number of dwelling houses (included under sub-head (1) above) which were inspected and recorded under the Housing Consolidated Regulations, 1925 and 1932	...	...	...	289
	(b)	Number of inspections made for the purpose	...	...	...	320
(3)		Number of dwelling houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	...	...	...	249
(4)		Number of dwelling houses (exclusive of those referred to under the preceding sub-head) found not to be in all respects reasonably fit for human habitation	...	...	...	223

2. REMEDY OF DEFECTS DURING THE YEAR WITHOUT SERVICE OF FORMAL NOTICES: -									
Number of defective dwelling houses rendered fit in consequence of informal action by the Local Authority or their officers									218
3. ACTION UNDER STATUTORY POWERS DURING THE YEAR :-									
(a) Proceedings under Sections 9, 10 and 16 of the Housing Act, 1936 :-									
(1)	Number of dwelling houses in respect of which notices were served requiring repairs								Nil
(2)	Number of dwelling houses which were rendered fit after service of formal notices :-								
(a)	by owners								Nil
(b)	by Local Authority in default of owners								Nil
(b) Proceedings under Public Health Acts :-									
(1)	Number of dwelling houses in respect of which notices were served requiring defects to be remedied								25
(2)	Number of dwelling houses in which defects were remedied after service of formal notices :-								
(a)	by owners								26
(b)	by Local Authority in default of owners or occupiers								Nil
(c) Proceedings under Section 11 and 13 of the Housing Act 1936 :-									
(1)	Number of dwelling houses in respect of which Demolition Orders were made								1
(2)	Number of dwelling houses demolished in pursuance of Demolition Orders								1
(3)	Number of dwelling houses demolished without formal procedure								5
(d) Proceedings under Section 12 of the Housing Act 1936 :-									
(1)	Number of separate tenements or underground rooms in respect of which closing orders were made								Nil
(2)	Number of separate tenements or underground rooms in respect of which Closing Orders were determined, the tenement or room having been rendered fit								Nil

HOUSING REPAIRS AND RENTS ACT, 1954.

This Act came into operation on 30th August, 1954.

Applications for Certificates of disrepair under Section 26 of the Housing Repairs and Rents Act 1954, were made in respect of five houses. Certificates were granted in each case.

PROVISION OF DUSTBINS.

Dustbins provided as a result of

(a) Informal action	...	...	...	...	...	...	...	393
(b) Formal action								
(1) by owners or occupiers	...	...	...	...	...	...	...	49
(2) by Local Authority in default	...	...	...	...	...	...	...	7

Appeals were made by owners against notices under Section 75, Public Health Act 1936 in six instances, with the following results: -

In four cases, the appeals were withdrawn as the tenants of the premises concerned provided the dustbins. In two of these cases the owners asked for costs, but no order was made.

In one case, the appeal was dismissed. No order as to costs was made.

In the last case the appeal was dismissed with £1/1/0 costs.

HOUSING ACCOMMODATION.

Visits have been made to all premises reported as being overcrowded or as being otherwise unsuitable for the health of the occupants. The following is a summary of the action taken and subsequent results, since 1945: -

	1945 to 1953	1954	Total
1. Reported to Housing Dept. as—			
(a) Overcrowded	196	9	205
(b) Not overcrowded but otherwise unsuitable	165	20	185
2. Reported to other authorities as—			
(a) Overcrowded	3	—	3
(b) Not overcrowded but otherwise unsuitable	7	—	7
(c) Not overcrowded or otherwise unsuitable	3	—	3
3. Inspected but no action considered necessary	174	9	183
4. Conditions found on re-inspection to have been abated at—			
(a) Overcrowded premises	167	13	180
(b) Premises where conditions were otherwise unsuitable	135	10	145

Included in No. 4 were 59 cases where members of the families concerned were suffering from tuberculosis and 10 from other illness.

SECTION "E"

INSPECTION AND SUPERVISION OF FOOD.

FOOD PREMISES.

Bye-laws made by the Council under Section 15 of the Food and Drugs Act 1938 came into operation on the 10th October 1950.

These bye-laws were made for securing the observance of sanitary and cleanly conditions and practices in connection with the handling, wrapping and delivering of food sold or intended for sale for human consumption, and in connection with the sale or exposure for sale in the open air of food intended for human consumption.

Inspection of food premises is being maintained to ensure compliance with these bye-laws and the provisions of Section 13 of the Food and Drugs Act 1938, and the following is a summary of the visits made and results of inspection: -

		<i>Number of premises</i>	<i>Number of visits</i>	<i>Number of notices Served. Complied with.</i>	
Bakehouses	...	17	51	8	8
Butchers	...	38	451	5	7
Bakers & confectioners	...	48	53	—	1
Cooked meat shops	...	16	28	—	—
Dairies & milkshops	...	83	115	—	—
Dining rooms & cafes	...	78	159	3	6
Fish frying establishments	...	17	17	1	1
Fishmongers	...	25	60	—	—
Greengrocers	...	104	261	2	5
Ice cream premises	...	119	168	1	1
Meat Depots	...	1	54	—	—
Provision Dealers	...	144	429	3	6
		<hr/> 690	<hr/> 1846	<hr/> 23	<hr/> 35

Note—Where premises carry on more than one type of business they are recorded under each appropriate type.

Forty-five premises are registered under Section 14 of the Food and Drugs Act 1938 for the preparation or manufacture of sausages or potted, pressed, pickled or preserved food intended for sale, and 17 for the preparation and sale of fried fish.

Complaints were received from the purchasers of (1) a meat pie containing a piece of surgical dressing and (2) bread containing bakehouse "char".

Letters of caution were sent to the manufacturers in both cases.

MILK SUPPLY.

There are no dairy farms in the Borough. Dairies other than dairy farms and milk distributors are registered by local authorities and there are now on the register 3 dairies and 80 distributors.

BACTERIOLOGICAL EXAMINATION OF MILK.

Two hundred and twenty-seven samples of milk were taken and submitted for bacteriological examination and the following is an analysis of the results obtained: -

<i>Designation</i>	<i>No. of Samples</i>	<i>Results</i>			
Pasteurised	150	Methylene Blue Test	—	Satisfactory	72
				Unsatisfactory	6
		Phosphatase Test	—	Satisfactory	72
				Unsatisfactory	0
Tuberculin Tested (Pasteurised)	60	Methylene Blue Test	—	Satisfactory	35
				Unsatisfactory	1
		Phosphatase Test	—	Satisfactory	24
				Unsatisfactory	0
Sterilised	17	Turbidity Test	—	Satisfactory	17
				Unsatisfactory	0

MILK (SPECIAL DESIGNATION) (RAW MILK) REGULATIONS, 1949 & 1950.

MILK (SPECIAL DESIGNATION) (PASTEURISED & STERILISED MILK) REGULATIONS, 1949 & 1950.

Licences issued under these Regulations were as follows: -

“Tuberculin Tested”	Dealer’s Licences	...	...	...	...	3
	Dealer’s Supplementary Licences			...	...	4
“Tuberculin Tested” (Pasteurised)	Dealer’s Licences	...	...	...	...	3
	Pasteurisers Licences	...	...	...	...	3
“Pasteurised”	Dealer’s Licences	...	...	...	...	11
	Dealer’s Supplementary Licences			...	...	4
“Sterilised”	Dealer’s Licences	...	...	...	...	67
	Dealer’s Supplementary Licences			...	...	4

ICE CREAM.

One hundred and eighteen premises are registered under Section 14 of the Food and Drugs Act, 1938 for the sale of ice cream, and 1 for the manufacture and sale of ice cream. One hundred and sixty-eight inspections were made in 1954.

Fifty-four samples of ice cream were taken and submitted for bacteriological examination with the following results: -

	<i>No. of Samples</i>
Grade 1	41
Grade 2	11
Grade 3	2
Grade 4	—
	—
	54
	—

SLAUGHTERHOUSES.

The control of meat and livestock ended on 5th July, 1954 and private slaughtering was resumed. There is one licensed slaughterhouse in the Borough. Visits of inspection made during the year numbered 230.

The provisions of the Slaughter of Animals Act, 1933 to 1954 relating to humane slaughtering of animals have been complied with. The number of slaughtermen holding licences at the end of the year was 14.

PUBLIC HEALTH (MEAT) REGULATIONS, 1924.

Meat Inspection—Carcases Inspected and Condemned

				<i>Cattle excluding Cows</i>	<i>Cows</i>	<i>Calves</i>	<i>Sheep and Lambs</i>	<i>Pigs</i>
Number killed	...	...	...	143	40	54	344	883
Number inspected	...	...	...	143	40	54	344	883
All diseases except tuberculosis. Whole carcasses condemned	...	...	...	1	—	—	—	—
Carcases of which some part or organ was condemned	...	...	...	14	8	—	5	21
Percentage of the number inspected affected with disease other than tuberculosis	...	...	...	10.49	20.00	—	1.45	2.38
Tuberculosis only. Whole carcasses condemned	...	...	...	1	—	—	—	—
Carcases of which some part or organ was condemned	...	...	...	2	2	—	—	10
Percentage of the number inspected affected with tuberculosis	...	...	...	2.10	5.00	—	—	1.13

CONDEMNED FOOD.

The following food was condemned as unfit for human consumption—

(a) As a result of inspection at Slaughterhouse—

1	Bovine carcase & offal (tuberculosis)	2	Bovine livers (fatty degeneration)
Part	Bovine carcase & offal	7	Pigs' heads & tongues (tuberculosis)
1	Bovine carcase & offal (pyaemia)	1	Pigs' head & tongue (abscess)
1	Bovine head & tongue (tuberculosis)	3	Pigs' livers (cirrhosis)
4	Bovine livers	2	Pigs' livers (parasitic infection)
4	Bovine lungs	10	Pigs' lungs (congestion)
4	Bovine mesenteric fats	2	2 Pigs' lungs (pleurisy)
2	Bovine Spleens	1	Pigs' lung (pneumonia)
1	Bovine head & tongue (abscess)	1	Pigs' heart (pleurisy)
4	Bovine livers (abscesses)	3	Pigs' kidneys (hydronephrosis)
14	Bovine livers (flukes)	3	Sheep livers (cystic)
2	Bovine livers (angioma)		

Total weight 2,104 lbs.

(b) Other carcase meat and offal—

	lbs.		lbs.
Beef (unsound)	515	Bovine tails (unsound) ...	123
Beef (bone taint)	614	Bovine sweatbreads (unsound)	25
Beef (bruised)	68	Pork (abscesses)	27
Beef (abscesses)	83	Pigs crowfat (unsound) ...	22
Bovine livers (unsound) ...	56	Lambs livers (unsound) ...	262
Bovine kidney (unsound)	31	Bovine lungs (unsound) ...	24
Bovine tongues (unsound)	4		

Total weight 1,854 lbs.

(c) Miscellaneous (unsound)—

	lbs.		lbs.
Fish	25	Poultry	175
Rabbits	44	Sausages	23
Whalemeat	69	Cheese	320

Total weight 656 lbs.

(d) Tinned and bottled foods (unsound)—

	lbs.		lbs.
Meat	1376	Jam	47
Fruit	1501	Marmalade	28
Vegetables	748	Cereals	36
Fish	67	Puddings	10
Milk	704	Dried Egg	79
Soup	237	Dried fruit	28
Fish & Meat paste	4	Cream	13
Sauces & pickles	10	Sweets	154
		Miscellaneous	15

Total weight 5,057 lbs.

TOTAL APPROXIMATE WEIGHTS—

	Tons	Cwts.	Qrs.	lbs.
Carcase meat and offal	1	15	1	10
Miscellaneous		5	3	12
Tinned & bottled foods	2	5	0	17
	4	6	1	11

DISPOSAL OF CONDEMNED FOOD.

Where possible, condemned food was used for animal feeding, otherwise it was taken to the Council's controlled refuse tip and buried.

FOOD AND DRUGS ACT, 1938.

One hundred and forty samples were taken under the Foods and Drugs Act, 1938 and submitted to the Public Analyst. Particulars of the samples and a summary of the results are shown in the following table: -

				<i>Number of</i>		<i>Result of Analyses</i>	
				<i>Formal</i>	<i>Informal</i>	<i>Genuine</i>	<i>Adulterated</i>
Baking Powder	...	...	...	—	1	1	—
Beef mince	...	...	...	1	—	1	—
Brawn	...	...	...	2	—	2	—
Butter	...	...	...	2	—	2	—
Butter beans	...	...	...	—	1	1	—
Cake mixture	...	...	...	—	1	1	—
Cheese	...	...	...	—	1	1	—
Cheese spread	...	...	...	—	1	1	—
Cheese sandwiches	...	...	...	—	1	1	—
Citrus peel	...	...	...	1	—	1	—
Cocoa	...	...	...	1	—	1	—
Coffee	...	...	...	1	—	1	—
Cooking fat	...	...	...	1	—	1	—
Custard powder	...	...	...	1	1	2	—
Desiccated coconut	...	...	...	1	—	1	—
Doughnuts	...	...	...	2	—	2	—
Dried apricots	...	...	...	—	1	—	1
Dried figs	...	...	...	—	1	—	1
Dried parsley	...	...	...	1	—	1	—
Fish paste	...	...	...	—	1	1	—
Flour	...	...	...	1	—	1	—
Fruit pie	...	...	...	—	1	1	—
Gelatine	...	...	...	—	2	2	—
Ground Almonds	...	...	...	1	—	1	—
Ground rice	...	...	...	—	1	1	—
Ground cinnamon	...	...	...	1	—	1	—
Ice cream	...	...	...	—	9	9	—
Jam	...	...	...	1	1	2	—
Lard	...	...	...	3	—	3	—
Luncheon meat	...	...	...	1	—	1	—
Margarine	...	...	...	4	—	4	—
Meat paste	...	...	...	—	1	1	—
Meat pie	...	...	...	—	1	1	—
Mincemeat	...	...	...	1	—	1	—
Mineral Water	...	...	...	—	3	3	—
Milk	...	...	...	49	—	49	—
Mussels	...	...	...	—	1	1	—
Olive Oil	...	...	...	—	1	1	—
Orange drink	...	...	...	—	2	2	—
Prunes	...	...	...	—	1	—	1
Sago	...	...	...	—	1	1	—
Sardines	...	...	...	—	2	2	—

Sauce	...	...	...	...	—	1	1	—
Sausages	...	...	...	...	9	2	11	—
Semolina	...	...	...	...	1	—	1	—
Soup powder	...	...	...	...	—	1	1	—
Spice	...	...	...	...	1	—	1	—
Sponge mixture	...	...	...	...	—	1	1	—
Suet	...	...	...	...	2	—	2	—
Sweets	...	...	...	...	—	3	2	1
Tapioca	...	...	...	...	1	—	1	—
Tea	...	...	...	...	3	1	4	—
Vinegar	...	...	...	...	—	1	1	—
					93	47	136	4

Particulars of adulterated samples and action taken: -

Dried Apricots, Sample No. 1316.

Dried Figs, Sample No. 1326.

Prunes, Sample No. 1325.

These samples contained dirt, sand and insect debris, the facts were reported to the Ministry of Food.

Whipped Cream Walnut, Sample No. 1286.

Contained a quantity of machine grease. A letter of caution was sent to the manufacturers.

SECTION "F"

PREVALENCE AND CONTROL OVER INFECTIOUS AND "OTHER DISEASES"

INFECTIOUS DISEASES.

The following notifiable infectious diseases were recorded: -

Measles	...	...	...	...	...	...	...	11
Whooping Cough	...	...	...	...	...	...	...	184
Tuberculosis—Respiratory	...	...	...	...	...	...	...	57
Tuberculosis—Non-Respiratory	...	...	...	...	...	...	...	6
Pneumonia	...	...	...	...	...	...	...	14
Scarlet Fever	...	...	...	...	...	...	...	38
Erysipelas	...	...	...	...	...	...	...	12
Acute Poliomyelitis—Paralytic	...	...	...	...	...	...	...	1
Acute Poliomyelitis—Non-Paralytic	...	...	...	...	...	...	...	2
Puerperal Pyrexia	...	...	...	...	...	...	...	1
Meningococcal Infection	...	...	...	...	...	...	...	3
Acute Encephalitis	...	...	...	...	...	...	...	2
Dysentery	...	...	...	...	...	...	...	1
Typhoid	...	...	...	...	...	...	...	1
Food Poisoning	...	...	...	...	...	...	...	1
Total								334

A table showing other particulars is given on page 9.

There were no cases of Smallpox or Diphtheria.

INSTITUTIONAL ACCOMMODATION FOR INFECTIOUS DISEASES.

Patients needing institutional accommodation for treatment or isolation were sent to Joyce Green Hospital, Dartford.

The other arrangements include the following: -

- (a) Ophthalmic Neonatorum—Kent Ophthalmic Hospital, Maidstone.
- (b) Smallpox—The River Hospitals (Long Reach) Dartford.
- (c) Tuberculosis—Bow Arrow Hospital, Dartford, and other hospitals and sanatoria arranged by the Chest Physicians.

DIPHTHERIA IMMUNISATION.

This work is under the control of the Kent County Council and the following arrangements are in operation: -

1. Immunisations are carried out at special sessions at the Welfare Centres and School Clinics.
2. Immunisations on behalf of the Local Health Authority are carried out by General Practitioners at their surgeries.
3. Notices are sent to every infant at the age of 8 months.
4. The Health Visitors follow up all cases in which there is no record of the injections having been given.

The diphtheria immunisation statistics for the year are as follows: -

During the year 528 children under fifteen years of age were immunised for the first time—492 children under five years and 36 over five years of age.

Thirteen children under five years and 226 children over five years of age were given re-inforcing injections.

The total number of children resident in the Borough under the age of fifteen years on 31st December, 1954, who had completed a course of immunisation at any time before that date (i.e. at any time since 1st January, 1940).

			<i>Under 5 years</i>	<i>5 and under 15 years</i>	<i>Total</i>
Number immunised	...	...	1,951	4,175	6,126
Percentage immunised	...	...	46.7	64.3	57.4

SMALLPOX PREVENTION.

VACCINATION.

When the National Health Service Act, 1946, came into operation the Vaccination Acts were repealed and infant vaccination ceased to be compulsory.

Vaccinations carried out during the year were as follows: -

			<i>Under 1 year</i>	<i>1-4 years</i>	<i>5-14 years</i>	<i>15 years and over</i>	<i>Total</i>
Primary Vaccinations	...	...	275	205	15	20	515
Re-vaccinations	...	...	—	8	18	69	95

TUBERCULOSIS.

Close co-operation has been maintained between the Health Department and the Chest Physicians.

DIAGNOSIS.

The Chest Clinic is provided at the Gravesend and North Kent Hospital where Patients are seen every Wednesday at 9 a.m.

MASS RADIOGRAPHY SURVEY.

Survey Centre—The Corporation Bathing Pool, Gravesend.

Date—4th October to 8th November, 1954.

<i>Number of Volunteers</i>			<i>Number recalled for Large Flms</i>		
Male	...	3,006	Male	...	128
Female	...	4,514	Female	...	155
Total 7,520			Total 283		

% recalled for large films to number of volunteers: 2.6%

RESULTS.

Active Tuberculosis — 6.

Inactive Tuberculosis — 62.

STATISTICS—

PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1952.

NOTIFICATION OF NEW CASES.

In 1954, 63 fresh cases were notified. The following table gives comparative particulars over the last ten years: -

<i>Year.</i>	<i>Estimated Population of Registrar General.</i>	<i>Pulmonary.</i>	<i>Non- Pulmonary</i>	<i>Total</i>
1945	36,090	32	4	36
1946	40,340	45	9	54
1947	41,630	75	8	83
1948	42,890	48	7	55
1949	43,250	82	10	92
1950	44,290	65	9	74
1951	44,280	54	1	55
1952	45,260	77	3	80
1953	45,530	48	3	51
1954	45,960	57	6	63

The sources from which the notifications of tuberculosis were received: -

Chest Physicians	...	...	41
Private Medical Practitioners	...	...	11
Hospitals and Institutions	...	...	11

AGE AND SEX DISTRIBUTION.

The following table shows the age and sex distribution of our 63 new cases: -

<i>Age Periods.</i>	<i>Pulmonary</i>		<i>Non-Pulmonary.</i>	
	<i>Male.</i>	<i>Female.</i>	<i>Male.</i>	<i>Female.</i>
0-1	—	1	—	—
1-5	—	1	1	1
5-10	—	—	—	—
10-15	2	3	—	1
15-20	2	8	—	1
20-25	5	1	—	—
25-35	5	4	—	—
35-45	6	8	1	1
45-55	7	1	—	—
55-65	2	—	—	—
65 and upwards	1	—	—	—
	30	27	2	4

OCCUPATIONAL ANALYSIS.

							<i>Male</i>	<i>Female</i>
Apprentice Printer	...	...	...	...	...	...	1	—
Boiler-maker	...	...	...	...	...	...	2	—
Book-binder	...	...	...	...	...	...	1	—
Boy, on ferry service	...	...	...	...	...	...	1	—
Canteen Assistant	...	...	...	...	...	...	—	1
Carpenter	...	...	...	...	...	...	2	—
Crane-driver	...	...	...	...	...	...	1	—
Clerk	...	...	...	...	...	...	3	—
Cook	...	...	...	...	...	...	1	—
Electrical Motorman	...	...	...	...	...	...	1	—
Factory Worker	...	...	...	...	...	...	1	2
Fitter and Turner	...	...	...	...	...	...	1	—
Hairdresser	...	...	...	...	...	...	1	—
Housewife	...	...	...	...	...	...	—	14
Insurance Agent	...	...	...	...	...	...	1	—
Labourer	...	...	...	...	...	...	2	—
Laundress	...	...	...	...	...	...	—	2
Metal Sorter	...	...	...	...	...	...	1	—
Painter and Decorator	...	...	...	...	...	...	1	—
Paper Mill Agent	...	...	...	...	...	...	1	—
Pipe-fitters Mate	...	...	...	...	...	...	1	—
Postman	...	...	...	...	...	...	1	—
Railway Shunter	...	...	...	...	...	...	1	—
Scholar	...	...	...	...	...	...	1	5
Sheet Metal Worker	...	...	...	...	...	...	1	—
Shore Bosun	...	...	...	...	...	...	1	—
Shop Assistant	...	...	...	...	...	...	—	2
Typist	...	...	...	...	...	...	—	1
Warehouseman	...	...	...	...	...	...	1	—
Window Cleaner	...	...	...	...	...	...	1	—
Children under five years of age			...	...	...	...	1	3
No Occupation	...	...	...	...	...	...	1	—
Occupation not known	...	...	...	...	...	...	—	1
							<hr/> 32	<hr/> 31

DEATHS AND DEATH RATE.

There were 9 deaths registered from Pulmonary Tuberculosis and 2 from Non-Pulmonary Tuberculosis. This gives a death rate of .23 per 1,000 population for all forms of Tuberculosis.

The following table compares the figures for 1954 with those of previous years, and shows the decline in the death rate for pulmonary tuberculosis since 1947: -

Year.	Pulmonary		Non-Pulmonary		Total
	Number	Rate per 1,000 Pop.	Number.	Rate per 1,000 Pop.	Rate per 1,000 Pop.
1945	19	.52	4	.11	.63
1946	16	.37	2	.05	.42
1947	24	.57	2	.04	.62
1948	23	.54	2	.05	.58
1949	24	.55	2	.05	.60
1950	14	.32	—	—	.32
1951	11	.25	2	.04	.29
1952	11	.24	1	.02	.26
1953	11	.24	1	.02	.26
1954	9	.19	2	.04	.23

TUBERCULOSIS REGISTER.

The names of 34 persons were removed from the Register for the following reasons: -

Deaths	...	...	...	...	13
Left the District	...	...	...	...	6
Recovered	...	...	...	...	13
Lost Sight of	...	...	...	...	1
Diagnosis not Confirmed	...	...	...	...	1
					<hr/> 34 <hr/>

Five hundred and fifty six persons remained on the Register at the 31st December, 1954. They consist of the following: -

					Males.	Females.	Total.
Pulmonary	...	...	...	...	301	213	514
Non-Pulmonary	...	...	...	...	19	23	42
					<hr/> 320 <hr/>	<hr/> 236 <hr/>	<hr/> 556 <hr/>

ADMISSION TO HOSPITAL AND SANATORIA.

Fifty-three patients suffering from pulmonary tuberculosis were admitted during the year. There has been a continued improvement in obtaining early admission to hospital and sanatoria, and the delay in obtaining admission for patients needing Thoracic Surgery has been considerably reduced.

During the year there has been an increase in the number of contacts examined at the Children's Clinic. Chemo-therapy has again played a large part in the domiciliary treatment of patients with pulmonary tuberculosis.

B.C.G. VACCINATION.

A substantial number of children have been vaccinated with B.C.G.

LEGAL PROCEEDINGS.

No action was necessary during the year under the Public Health (Prevention of Tuberculosis) Regulations, 1925, or under Section 172 of the Public Health Act, 1936.

VENEREAL DISEASES.

Dr. Routh, the Medical Officer in charge of the Gravesend Clinic, has kindly supplied the following statistics: -

						Males	Females	Total
<i>New Patients—Gravesend—</i>								
Syphilis	...	...	...	...	...	1	1	2
Gonorrhoea	...	...	...	...	...	11	4	15
Non-Venereal		...	...	...	...	46	5	51
						<hr/> 58	<hr/> 10	<hr/> 68

Total No. of Patients (new) from all areas	...	...	...	...	...	252
No. of attendances of Gravesend Patients	...	...	...	...	...	532
Total No. of attendances—all areas	...	...	...	...	...	1,408

Discharged cured (all districts) : -

						Males	Females	Total
Syphilis	...	...	...	...	...	2	6	8
Gonorrhoea	...	...	...	...	...	17	11	28
Non-Venereal		...	...	...	...	141	16	157
						<hr/> 160	<hr/> 33	<hr/> 193

Defaulted after completion of treatment and before 3 months (Gravesend)

								Males
Gonorrhoea	...	...	...	...	...	...	...	2

Defaulted after completion of treatment but before final discharge.

Syphilis	...	...	...	...	...	...	...	...	Males
									1

CLEANLINESS, GOOD HEALTH AND ELIMINATION OF VERMINOUS CONDITIONS.

The Health Visitors and Sanitary Inspectors have been active in their educative work in regard to cleanliness and freedom from vermin.

BOROUGH MORTUARY.

The Mortuary, situated in Swan Yard, provides facilities for six bodies and there is a well equipped post mortem room.

During the year, 81 bodies were received and 80 post-mortem examinations performed.

CORONER'S INQUESTS.

H.M. Coroner has kindly supplied the following information: -

Total number of inquests	...	...	...	...	...	...	...	22
Number of post-mortems without inquests	...	...	...	...	...	...	...	55
Verdicts	...	...	...	...	...	...	...	22
Accidental deaths	...	...	...	...	...	...	...	13
Suicides	...	...	...	...	...	...	...	6
Found drowned	...	...	...	...	...	...	...	1
Other verdicts	...	...	...	...	...	...	...	2

BACTERIOLOGICAL EXAMINATION OF DRINKING WATER.

Date taken	No. of organisms per c.c capable of growth on agar at :		B. coli (presumptive) per 100 ml.	Faecal B. coli per 100 ml.	Remarks	
	37°C	22°C				
1. GRAVESEND & MILTON WATER CO.'S SUPPLY. (a) Leith Park Road Well (untreated)	14-1-54	0	23	1	Absent	No evidence of recent faecal contamination.
	18-2-54	0	3	Absent		Good water.
	18-3-54	1	17	Absent		Good water.
	22-4-54	0	5	Absent		Good water.
	20-5-54	0	0	Absent		Good water.
	17-6-54	7	9	Absent		No evidence of recent faecal contamination.
	15-7-54	94	124	7	Absent	No evidence of recent faecal contamination.
	19-8-54	0	0	Absent		Good water.
	16-9-54	0	1	Absent		Good water.
	21-10-54	0	0	Absent		Good water.
	18-11-54	0	5	5	Absent	No evidence of recent faecal contamination.
	9-12-54	0	4	Absent		Good water.
(b) Leith Park Road Outgoing main (treated)	14-1-54	1	3	Absent		Good water.
	18-2-54	0	1	Absent		Good water.
	18-3-54	0	0	Absent		Good water.
	22-4-54	0	126	Absent		No evidence of recent faecal contamination.
	20-5-54	0	0	Absent		Count high for a treated water.
	17-6-54	0	0	Absent		Good water.
	15-7-54	0	7	1	Absent	Good water.
	19-8-54	0	0	Absent		No evidence of recent faecal contamination.
	16-9-54	0	0	Absent		Good water.
	21-10-54	5	1	1	Absent	Good water.
	18-11-54	0	0	Absent		No evidence of recent faecal contamination.
	9-12-54	0	18	Absent		Good water.

BACTERIOLOGICAL EXAMINATION OF DRINKING WATER.

	<i>Date taken</i>	<i>No. of organisms per c.c. capable of growth on agar at :</i>	<i>B. coli (presumptive) per 100 ml.</i>	<i>Faecal B. coli per 100 ml.</i>	<i>Remarks</i>
		37oC	22oC		
(c) Domestic Supplies (treated)	14-1-54	0	0	Absent	Good water.
	18-2-54	0	22	Absent	Good water.
	2-3-54	0	0	Absent	Good water.
	18-3-54	0	1	Absent	Good water.
	22-4-54	0	0	Absent	Good water.
	20-5-54	0	0	Absent	Good water.
	17-6-54	0	0	Absent	Good water.
	15-7-54	0	0	Absent	Good water.
	19-8-54	0	0	Absent	Good water.
	16-9-54	4	7	1	Evidence of recent faecal contamination.
	27-9-54	0	0	Absent	Good water.
	21-10-54	0	0	Absent	Good water.
	18-11-54	0	0	Absent	Good water.
	9-12-54	0	0	Absent	Good water.
2. HIGHAM & HUNDRED OF Hoo Co.'s SUPPLY. Domestic Supplies (treated)	14-1-54	0	1	Absent	Good water.
	18-2-54	0	0	Absent	Good water.
	18-3-54	0	1	Absent	Good water.
	22-4-54	0	0	Absent	Good water.
	20-5-54	19	27	2	No evidence of recent faecal contamination.
	17-6-54	0	0	Absent	Good water.
	15-7-54	13	24	3	Evidence of recent faecal contamination.
	19-8-54	0	41	Absent	Satisfactory.
	16-9-54	0	0	Absent	Good water.
	21-10-54	0	0	Absent	Good water.
	18-11-54	0	42	30	No evidence of recent faecal contamination.
	9-12-54	0	0	Absent	Good water.

CHEMICAL ANALYSIS OF DRINKING WATER.

	<i>Stand pipe, River wall, Denton</i>		<i>Domestic Premises</i>		<i>Leith Park Road Pumping Station Well</i>		<i>Leith Park Road Reservoir</i>	
	<i>(treated)</i>		<i>(treated)</i>		<i>(untreated)</i>		<i>(treated)</i>	
<i>Date taken</i>	2-3-54		16-8-54		18-11-54		18-11-54	
Appearance	Clear		Clear		Clear		Clear	
Odour	None		None		None		None	
Chlorine in Chlorides	1.12		1.00		22.00		22.5	
Nitrogen in Nitrates	0.27		0.28		10.5		9.5	
Nitrogen in free ammonia	Nil		Nil		Nil		Nil	
Nitrogen in albuminoid ammonia	Nil		Trace		Nil		Nil	
Oxygen absorbed in 15 minutes	Nil							
Oxygen absorbed in 4 hours	0.004							
Oxygen absorbed from permanganent								
Total hardness	17.2		Trace		0.11		0.11	
Permanent hardness	2.0		17.7		317		317	
Total matters in solution	21.42		2.9		65		65	
Microscopical examination	Unimportant		21.28		400		412	
Remarks	Good water		Trace of iron oxide only		Of great organic purity and free from sewage percolation		Of great organic purity and free from sewage percolation	
			A pure water from the chalk of the very highest purity and free from all sewage percolation. The slight deposit is harmless.					

Note—The numerical results of the first two samples are expressed in grains per gallon, and the last two are reported in parts per million.

BACTERIOLOGICAL EXAMINATION OF BATHING POOL WATER

Date taken	Where taken	No. of organisms per c.c. capable of growth on agar at :			B. coli per 100 ml.	Remarks
		37 deg C	22 deg C			
13-5-54	Deep end	2	0	1	Absent	No evidence of recent faecal contamination.
	Shallow end	0	0	Absent		Good Water.
	Paddling pool	8	9	Absent		No evidence of recent faecal contamination.
3-6-54	Deep end	0	0	Absent		Good Water.
	Shallow end	0	0	Absent		Good water.
	Paddling pool	0	0	Absent		Good water.
21-6-54	Deep end	12	46	Absent		No evidence of recent faecal contamination.
	Shallow end	0	0	Absent		Good water.
	Paddling pool	0	0	Absent		Good water.
8-7-54	Deep end	0	0	Absent		Good water.
	Shallow end	0	0	Absent		Good water.
	Paddling pool	0	0	Absent		Good water.
4-8-54	Deep end	0	0	Absent		Good water.
	Shallow end	0	0	Absent		Good water.
	Paddling pool	0	0	Absent		Good water.
2-9-54	Deep end	0	0	Absent		Good water.
	Shallow end	0	0	Absent		Good water.
	Paddling pool	0	0	Absent		Good water.

ATMOSPHERIC POLLUTION.

Data extracted from the Analysts monthly reports was also supplied to the Department of Scientific and Industrial Research in the form shown in the following tables.

Site—Swimming Pool.

See notes at end of tables for details of abbreviations.

Month	Deposit (grams per 100 square metres)										
	Rain mm.	pH. value	TWIM	S/CS2	ACH	OCM	TWSM	Ca	Cl	SO4	TS
1953											
April	51	6.8	335	5	228	102	300	61	37	130	634
May	30	7.2	394	7	271	116	244	57	22	100	638
June	30	7.6	454	4	333	117	374	93	30	174	828
July	84	7.4	295	3	219	74	290	50	26	76	585
August	29	8.2	348	4	253	91	243	64	26	91	591
Sept.	58	7.2	291	3	211	78	345	71	45	124	636
Total	282	44.4	2117	26	1515	578	1796	396	186	695	3912
Mean	67	7.4	353	4	252	96	299	66	31	116	652
Oct.	73	7.0	399	5	293	101	522	99	39	187	922
Nov.	6	7.2	196	1	152	43	347	109	26	161	542
Dec.	17	7.0	445	4	329	112	496	126	37	263	941
1954											
Jan.	29	6.9	392	4	290	99	458	110	63	203	850
Feb.	42	6.3	404	7	284	113	357	71	53	138	761
March	35	7.2	372	4	261	107	297	70	34	184	669
Total	202	41.6	2208	25	1609	575	2477	585	252	1086	4685
Mean	33	6.9	368	4	268	96	413	97	42	181	781
April	5	7.6	154	3	109	42	191	41	20	91	345
May	33	8.2	450	4	318	128	402	82	39	141	852
June	74	8.8	265	1	197	66	345	79	28	97	609
July	63	8.3	343	3	250	90	333	74	25	93	676
August	66	7.3	362	4	269	88	434	116	34	141	796
Sept.	29	7.1	267	3	197	67	240	51	28	71	507
Total	270	47.3	1841	18	1340	481	1945	443	174	634	3785
Mean	45	7.8	307	3	233	80	324	74	29	106	631

Site—Dashwood Lane Nurseries.

Month	Rain pH.		Deposit (grams per 100 square metres)								
	mm.	value	TWIM	S/CS2	ACH	OCM	TWSM	Ca	Cl	SO4	TS
1953											
April	48	6.6	218	3	161	55	283	58	29	107	501
May	33	7.2	248	3	181	64	225	62	17	69	472
June	33	7.6	602	4	476	122	455	102	31	183	1057
July	75	7.4	288	3	220	65	224	35	22	55	512
August	25	8.0	287	4	207	76	183	50	24	65	470
Sept.	57	7.2	237	3	171	63	271	67	33	94	508
Total	271	44.0	1880	20	1416	445	1641	374	156	573	3520
Mean	45	7.3	313	3	236	74	273	62	26	95	586
Oct.	75	7.0	313	4	223	86	457	75	39	166	770
Nov.	6	7.4	151	1	111	38	225	48	16	100	376
Dec.	17	6.9	419	3	342	75	454	105	34	210	873
1954											
Jan.	27	7.0	312	4	259	48	362	86	46	154	674
Feb.	39	6.8	440	8	296	136	373	67	45	153	813
Mar.	35	7.6	254	3	195	56	295	69	31	122	549
Total	199	42.7	1889	23	1426	439	2166	450	211	905	4055
Mean	33	7.1	315	4	239	73	361	75	33	151	676
April	5	7.6	160	3	119	38	199	46	18	92	259
May	39	8.2	495	4	396	95	461	105	39	160	956
June	76	8.9	310	1	242	67	379	81	22	99	689
July	61	8.2	368	3	274	92	331	68	24	95	699
August	63	7.3	320	4	217	98	382	93	30	135	702
Sept.	24	7.3	202	3	152	47	199	47	18	69	402
Total	268	47.5	1855	18	1400	437	1951	440	151	650	3807
Mean	45	7.9	309	3	233	73	325	73	25	108	634

Abbreviations : -

- TWIM—Total water insoluble matter.
- S/CS2—Soluble carbon bisulphade.
- OCM—Other combustible material.
- TWMS—Total water soluble matter.
- Ca—Calcium.
- Cl—Chloride.
- SO4—Sulphur dioxide.
- TS—Total solids.

Sulphur Dioxide (P602 method)

SO3 (sulphur trioxide) collected per day (milligrammes)								
Site	1953							
	Apl.	May	June	July	Aug.	Sept.	Sum	Mean
Dashwood Nurseries	0.99	0.53	0.87	0.39	0.50	0.73	4.01	0.67
Swimming Pool	1.12	0.58	0.95	0.50	0.75	1.10	5.00	0.83
	1953			1954				
	Oct.	Nov.	Dec.	Jan.	Feb.	Mch.	Sum	
Dashwood Nurseries	0.99	1.05	1.75	2.31	1.59	1.40	9.09	1.51
Swimming Pool	1.13	1.75	2.34	2.89	1.70	1.88	11.69	1.95
	1953							
	Apl.	May	June	July	Aug.	Sept.	Sum	Mean
Dashwood Nurseries	1.48	1.25	0.69	0.75	0.78	0.51	5.46	0.91
Swimming Pool	1.68	1.27	0.70	0.79	0.87	0.70	6.01	1.00

